

Gaetano Giunta

List of Publications by Year in descending order

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77
papers

2,227
citations

257450

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265206

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90
all docs

90
docs citations

90
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	REFINED BEAM THEORIES BASED ON A UNIFIED FORMULATION. International Journal of Applied Mechanics, 2010, 02, 117-143.	2.2	249
2	Refined beam elements with arbitrary cross-section geometries. Computers and Structures, 2010, 88, 283-293.	4.4	218
3	Hierarchical theories for the free vibration analysis of functionally graded beams. Composite Structures, 2011, 94, 68-74.	5.8	102
4	Analysis of FGM Beams by Means of Classical and Advanced Theories. Mechanics of Advanced Materials and Structures, 2010, 17, 622-635.	2.6	99
5	Free vibration analysis of composite beams via refined theories. Composites Part B: Engineering, 2013, 44, 540-552.	12.0	96
6	Static analysis of laminated beams via a unified formulation. Composite Structures, 2011, 94, 75-83.	5.8	65
7	Data-driven multiscale finite element method: From concurrence to separation. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112893.	6.6	65
8	A thermo-mechanical analysis of functionally graded beams via hierarchical modelling. Composite Structures, 2013, 95, 676-690.	5.8	59
9	A free vibration analysis of three-dimensional sandwich beams using hierarchical one-dimensional finite elements. Composites Part B: Engineering, 2017, 110, 7-19.	12.0	51
10	Variable kinematic beam elements coupled via Arlequin method. Composite Structures, 2011, 93, 697-708.	5.8	46
11	Hierarchical modelling of doubly curved laminated composite shells under distributed and localised loadings. Composites Part B: Engineering, 2011, 42, 682-691.	12.0	45
12	ANALYSIS OF THIN-WALLED BEAMS VIA A ONE-DIMENSIONAL UNIFIED FORMULATION THROUGH A NAVIER-TYPE SOLUTION. International Journal of Applied Mechanics, 2011, 03, 407-434.	2.2	40
13	A Fourier-related double scale analysis on the instability phenomena of sandwich plates. Computer Methods in Applied Mechanics and Engineering, 2017, 318, 270-295.	6.6	40
14	Free vibration and stability analysis of three-dimensional sandwich beams via hierarchical models. Composites Part B: Engineering, 2013, 47, 326-338.	12.0	38
15	A novel two-dimensional finite element to study the instability phenomena of sandwich plates. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1117-1137.	6.6	34
16	Static, free vibration and stability analysis of three-dimensional nano-beams by atomistic refined models accounting for surface free energy effect. International Journal of Solids and Structures, 2013, 50, 1460-1472.	2.7	33
17	Hierarchical Evaluation of Failure Parameters in Composite Plates. AIAA Journal, 2009, 47, 692-702.	2.6	32
18	Multi-scale modelling of sandwich structures using hierarchical kinematics. Composite Structures, 2011, 93, 2375-2383.	5.8	31

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19	Hierarchical closed form solutions for plates bent by localized transverse loadings. Journal of Zhejiang University: Science A, 2007, 8, 1026-1037.	2.4	30
20	Hierarchical models for failure analysis of plates bent by distributed and localized transverse loadings. Journal of Zhejiang University: Science A, 2008, 9, 600-613.	2.4	30
21	Exact, Hierarchical Solutions for Localized Loadings in Isotropic, Laminated, and Sandwich Shells. Journal of Pressure Vessel Technology, Transactions of the ASME, 2009, 131, .	0.6	29
22	A new family of finite elements for wrinkling analysis of thin films on compliant substrates. Composite Structures, 2015, 119, 568-577.	5.8	28
23	A Thermo-Mechanical Analysis of Isotropic and Composite Beams via Collocation with Radial Basis Functions. Journal of Thermal Stresses, 2013, 36, 1169-1199.	2.0	26
24	A static analysis of three-dimensional functionally graded beams by hierarchical modelling and a collocation meshless solution method. Acta Mechanica, 2016, 227, 969-991.	2.1	25
25	A thermal stress finite element analysis of beam structures by hierarchical modelling. Composites Part B: Engineering, 2016, 95, 179-195.	12.0	25
26	Multiscale CUF-FE2 nonlinear analysis of composite beam structures. Computers and Structures, 2019, 221, 28-43.	4.4	25
27	Variable kinematic plate elements coupled via Arlequin method. International Journal for Numerical Methods in Engineering, 2012, 91, 1264-1290.	2.8	24
28	A micromechanics approach for effective elastic properties of nano-composites with energetic surfaces/interfaces. Composite Structures, 2017, 159, 278-287.	5.8	22
29	Failure indentation analysis of composite sandwich plates via hierarchical models. Journal of Sandwich Structures and Materials, 2013, 15, 45-70.	3.5	20
30	A two-dimensional Fourier-series finite element for wrinkling analysis of thin films on compliant substrates. Thin-Walled Structures, 2017, 114, 144-153.	5.3	20
31	Hierarchical one-dimensional finite elements for the thermal stress analysis of three-dimensional functionally graded beams. Composite Structures, 2016, 153, 514-528.	5.8	19
32	A refined 1D element for the structural analysis of single and multiple fiber/matrix cells. Composite Structures, 2013, 96, 455-468.	5.8	18
33	A new Fourier-related double scale analysis for wrinkling analysis of thin films on compliant substrates. Composite Structures, 2017, 160, 613-624.	5.8	17
34	Integration of material and process modelling in a business decision support system: Case of COMPOSELECTOR H2020 project. Composite Structures, 2018, 204, 778-790.	5.8	17
35	An intuitive computational multi-scale methodology and tool for the dynamic modelling of viscoelastic composites and structures. Composite Structures, 2016, 144, 131-137.	5.8	15
36	Locking-free curved elements with refined kinematics for the analysis of composite structures. Computer Methods in Applied Mechanics and Engineering, 2018, 337, 481-500.	6.6	15

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37	The boundary effects on stretch-induced membrane wrinkling. <i>Thin-Walled Structures</i> , 2020, 154, 106838.	5.3	14
38	Hierarchical beam finite elements for geometrically nonlinear analysis coupled with Asymptotic Numerical Method. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 2487-2500.	2.6	14
39	Hierarchical FEM modelling of piezo-electric beam structures. <i>Composite Structures</i> , 2013, 95, 705-718.	5.8	13
40	Hierarchical models for the static analysis of three-dimensional sandwich beam structures. <i>Composite Structures</i> , 2015, 133, 1284-1301.	5.8	13
41	Strong and weak form solutions of curved beams via Carrera's unified formulation. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1342-1353.	2.6	13
42	Free Vibration Analysis of Composite Plates via Refined Theories Accounting for Uncertainties. <i>Shock and Vibration</i> , 2011, 18, 537-554.	0.6	10
43	An analysis of composite beams by means of hierarchical finite elements and a variables separation method. <i>Computers and Structures</i> , 2015, 158, 15-29.	4.4	10
44	Geometrically Nonlinear Analysis of Beam Structures via Hierarchical One-Dimensional Finite Elements. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-22.	1.1	10
45	A data-driven analysis on bridging techniques for heterogeneous materials and structures. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1-15.	2.6	10
46	A geometrically nonlinear analysis through hierarchical one-dimensional modelling of sandwich beam structures. <i>Acta Mechanica</i> , 2023, 234, 67-83.	2.1	9
47	Data-driven multiscale method for composite plates. <i>Computational Mechanics</i> , 2022, 70, 1025-1040.	4.0	9
48	A free vibration analysis of piezo-electric beams via hierarchical one-dimensional finite elements. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1009-1023.	2.5	8
49	Static Analysis of Shear Actuated Piezo-Electric Beams via Hierarchical FEM Theories. <i>Mechanics of Advanced Materials and Structures</i> , 2015, 22, 3-18.	2.6	8
50	Hierarchical theories for a linearised stability analysis of thin-walled beams with open and closed cross-section. <i>Advances in Aircraft and Spacecraft Science</i> , 2014, 1, 253-271.	0.5	8
51	Analysis of nano-plates by atomistic-refined models accounting for surface free energy effect. <i>Acta Mechanica</i> , 2014, 225, 31-51.	2.1	7
52	Mixed-dimensional modeling by means of solid and higher-order multi-layered plate finite elements. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 960-970.	2.6	7
53	Free Vibration Analysis of Fibre-Metal Laminated Beams via Hierarchical One-Dimensional Models. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-12.	1.1	7
54	Modeling of composite and sandwich beams with a generic cross-section using a variable separation method. <i>Composites Part B: Engineering</i> , 2019, 165, 648-661.	12.0	7

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55	Effective electromechanical coupling coefficient of adaptive structures with integrated multi-functional piezoelectric structural fiber composites. <i>Smart Structures and Systems</i> , 2014, 13, 501-515.	1.9	7
56	Hierarchical Beam Finite Elements Based Upon a Variables Separation Method. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650026.	2.2	6
57	A Thermal Stress Analysis of Three-Dimensional Beams by Refined One-Dimensional Models and Strong Form Solutions. <i>Applied Mechanics and Materials</i> , 2016, 828, 139-171.	0.2	6
58	A static analysis of three-dimensional sandwich beam structures by hierarchical finite elements modelling. <i>Journal of Sandwich Structures and Materials</i> , 2019, 21, 2382-2410.	3.5	6
59	A hygrothermal stress finite element analysis of laminated beam structures through hierarchical one-dimensional modeling. <i>Mechanics of Advanced Materials and Structures</i> , 0, , 1-15.	2.6	6
60	Evaluation of various through the thickness and curvature approximations in free vibration analysis of cylindrical composites shells. <i>International Journal of Vehicle Noise and Vibration</i> , 2011, 7, 212.	0.1	5
61	A novel computational framework for the analysis of bistable composite beam structures. <i>Composite Structures</i> , 2021, 257, 113167.	5.8	5
62	A dynamic analysis of three-dimensional functionally graded beams by hierarchical models. <i>Smart Structures and Systems</i> , 2014, 13, 637-657.	1.9	5
63	Analysis of FGM beams by means of a unified formulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 10, 012073.	0.6	4
64	An Improved Beam Formulation for Aeroelastic Applications. , 2010, , .		4
65	Higher-Order Hierarchical Models for the Free Vibration Analysis of Thin-Walled Beams. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-12.	1.1	4
66	Optimal design of a multilayered piezoelectric transducer based on a special unit cell homogenization method. <i>Acta Mechanica</i> , 2016, 227, 1837-1847.	2.1	4
67	Model reduction for the forming process of fibrous composites structures via second gradient enriched continuum models. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 1061-1072.	2.6	4
68	Failure Analysis of Composite Plates Subjected to Localized Loadings via a Unified Formulation. <i>Journal of Engineering Mechanics - ASCE</i> , 2012, 138, 458-467.	2.9	3
69	Analysis of Three-Dimensional Piezo-Electric Beams via a Unified Formulation. <i>Advanced Materials Research</i> , 0, 745, 101-118.	0.3	3
70	Best on Plate/Shell Theories for Laminated Structures Analysis. , 2008, , .		2
71	A Refined Beam Theory with Only Displacement Variables and Deformable Cross-Section. , 2009, , .		2
72	Multiscale Nonlinear Analysis of Beam Structures by Means of the Carrera Unified Formulation. <i>PoliTO Springer Series</i> , 2019, , 47-63.	0.5	2

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73	Hierarchical Theories for a Linearised Stability Analysis of FGM Beams. , 2011, , .		1
74	Multi-Model Beam Theories via the Arlequin Method. , 2011, , 151-168.		0
75	A static analysis of three-dimensional functionally graded beams through hierarchical one-dimensional finite elements. AIP Conference Proceedings, 2015, , .	0.4	0
76	Non-linear multi-scale modeling of 3D-spacer-rubber composites. , 2019, , 70-76.		0
77	Thermo-Mechanical Analysis of Isotropic and Orthotropic Beams using a Unified Formulation. , 0, , .		0